

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/07912

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01F 3/04
US CL : 261/114.2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 261/114.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 1,776,589 A (KEITH, JR.) 23 September 1930 (23.09.1930), fig. 1.	1-16
A	US 2,488,249 A (WHITE) 15 November 1949 (15.11.1949), fig. 1.	1-16
X	US 5,158,714 A (SHIH et al) 27 October 1992 (27.10.1992), figs. 2 and 3; col. 3, lines 16-27; col. 4, lines 28-38.	1-16
A	US 5,514,305 A (EBELING) 07 May 1996 (07.05.1996), fig. 3.	1-16
X	US 6,098,965 A (JACOBS et al) 08 August 2000 (08.08.2000), figs. 6B and 18.	1-16
X	US 6,338,828 A (STUPIN et al) 15 January 2002 (15.01.2002), figs. 6B and 18.	1-16

<input type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 23 April 2003 (23.04.2003)	Date of mailing of the international search report 07 MAY 2003
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